

IN THE CLAIMS:

Claims 1-20 (Cancelled)

Claim 21 (Currently amended) An electrical structural part, comprising:

a) an electrical or electronic structural element;

b) a basic body formed of a first hard thermoplastic synthetic material having a first melting temperature on which the structural element is arranged, wherein the basic body includes at least one protruding rib and at least one undercut formed adjacent to said at least one protruding rib; and

c) an encapsulation tightly surrounding the structural element, formed of a second hard thermoplastic synthetic material having a second melting temperature which is higher than the first melting temperature, said second hard thermoplastic synthetic material engaging said at least one protruding rib and said at least one undercut, and wherein said second hard thermoplastic synthetic material of the encapsulation is intimately fused with said first hard thermoplastic synthetic material of the basic body so as to embed the structural element free of gaps and voids.

Claim 22 (Previously presented) The structural part of claim 21, wherein the structural element comprises an electrical coil winding including a coil wire which is arranged directly on the basic body.

Claim 23 (Previously presented) The structural part of claim 22, wherein the basic body includes a cylindrical portion about which the coil winding is arranged.

Claim 24 (Currently amended) The structural part of claim 23, wherein the cylindrical portion of the basic body includes a limitation collar at one end ~~and a~~

connection head at an opposite end, and wherein the basic body includes a protruding rib adjacent to said limitation collar and an undercut between said limitation collar and said protruding rib, said second hard thermoplastic synthetic material of the encapsulation engaging said limitation collar, said protruding rib adjacent to said limitation collar and said undercut between said limitation collar and said protruding rib adjacent to said limitation collar.

Claim 25 (Cancelled)

Claim 26 (Currently amended) The structural part of ~~claim 25~~ claim 24, wherein the cylindrical portion of the basic body includes a connection head at an end opposing said limitation collar, and the basic body includes a protruding rib adjacent to said connection head and an undercut between said connection head and said protruding rib, said second hard thermoplastic synthetic material of the encapsulation engaging said connection head, said protruding rib adjacent to said connection head and said undercut between said connection head and said protruding rib adjacent to said connection head a ~~rib and an undercut are formed on the cylindrical part of the basic body near the limitation collar and near the connection head.~~

Claim 27 (Currently amended) The structural part of ~~claim 25~~ claim 24, wherein the rib adjacent to said limitation collar has at least one relief, said second hard thermoplastic synthetic material of the encapsulation engaging said at least one relief.

Claim 28 (Currently amended) The structural part of ~~claim 24~~ claim 26, wherein the connection head of the basic body has at least one passage into which a connection pin in contact with an end of the coil wire is embedded free of voids, said

second hard thermoplastic synthetic material of the encapsulation engaging said at least one passage.

Claim 29 (Previously presented) The structural part of claim 28, wherein an end portion of the connection pin extends beyond the connection head at a front side opposite to the cylindrical portion.

Claim 30 (Previously presented) The structural part of claim 22, wherein the coil winding includes a main winding and an auxiliary winding.

Claim 31 (Previously presented) The structural part of claim 30, wherein the main winding is wound onto the cylindrical portion of the basic body and the auxiliary winding is wound onto the main winding.

Claim 32 (Previously presented) The structural part of claim 30, wherein coil wire of the main winding comprises two layers wound one above the other and the auxiliary winding comprises one single winding layer.

Claim 33 (Previously presented) The structural part of claim 21, wherein the basic body has an axial longitudinal bore.

Claim 34 (Previously presented) The structural part of claim 21, wherein encapsulation has a circular-cylindrical outer surface.

Claim 35 (Previously presented) The structural part of claim 21, wherein the basic body has a longitudinal bore and the structural element includes an embedded coil winding which is in contact with connection pins so as to form a plug socket.

Claim 36 (Previously presented) The structural part of claim 21 wherein the basic body has a longitudinal bore and the structural element includes an embedded coil winding which is in contact with connection pins so as to form a plug pin.

Claim 37 (Previously presented) The structural part of claim 36, wherein the plug pin is axially insertable into a plug socket which comprises:

- a) an electrical structural element in the form of a coil winding which is in contact with connection pins;
- b) a basic body having a longitudinal bore and formed of a first hard thermoplastic synthetic material having a first melting temperature on which the structural element is arranged; and
- c) an encapsulation tightly surrounding the structural element, formed of a second hard thermoplastic synthetic material having a second melting temperature which is higher than the first melting temperature, wherein material of the encapsulation is intimately fused with material of the basic body so as to embed the structural element free of gaps and voids.

Claim 38 (Previously presented) The structural part of claim 37, wherein the encapsulation of the plug pin includes an circular-cylinder outer surface having an outer diameter slightly smaller than an inner diameter of a longitudinal bore formed in the basic body of the plug socket.

Claim 39 (Previously presented) The structural part of claim 37, wherein the plug pin has a connection head with a diameter greater than its encapsulation and substantially equal to the diameter of the encapsulation of the plug socket.

Claim 40 (Previously presented) The structural part of claim 37, wherein the encapsulation of the plug pin and the encapsulation of the plug socket have substantially equal axial lengths.

Claim 41 (Cancelled)

Claim 42 (New) The structural part of claim 37, wherein the cylindrical portion of the basic body of the plug socket includes a limitation collar at one end, and wherein the basic body of the plug socket includes a protruding rib adjacent to said limitation collar and an undercut between said limitation collar and said protruding rib, said second hard thermoplastic synthetic material of the encapsulation engaging said limitation collar, said protruding rib adjacent to said limitation collar and said undercut between said limitation collar and said protruding rib adjacent to said limitation collar.